Rack-mounted Modem Shelf

USER'S MANUAL

CONTENT

1.1 Modem Shelf and NMC

1.2 Rack-mounted Modem and NTU

CHAPTER 1 Introduction

1.1 Modem Shelf and NMC

DCE

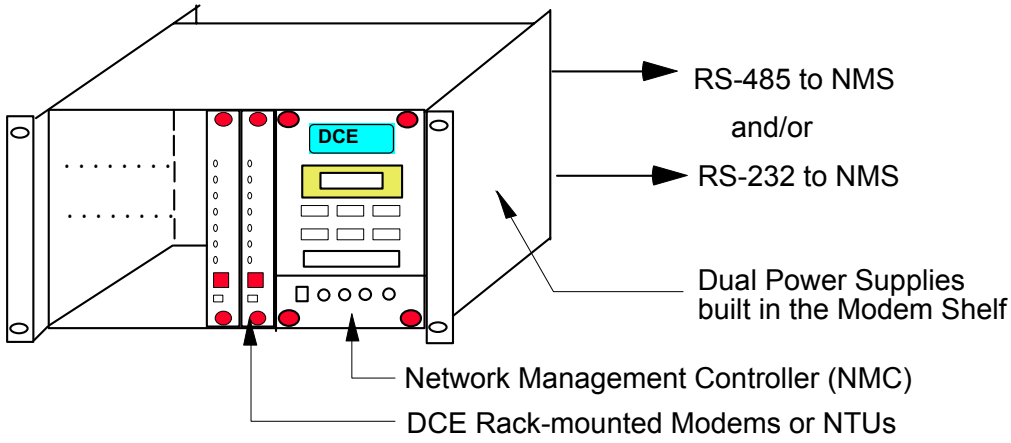


Fig. 1-1 DCE Rack-Munt Modem

RM MUI RM MUI

RM32MUI

RM16MUI

DCE

1.2 Rack-mounted Modem and NTU

RM MUI V3600UI-DUAL

RM MUI
DCE

1.2.1 The V3600UI-DUALRM Modem Front Panel

RM MUI V.3600UI-DUAL
V.3600UI

VO/DA

SEL

DTR
DSR
RTS
CTS
TXD
DCD
RXD
OH
TST
SCAN

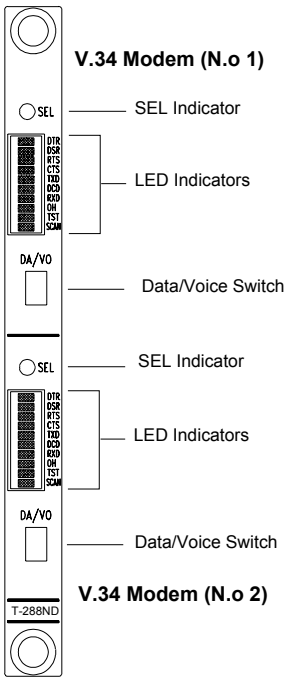


Fig. 1-2 The V3600UI-DUAL Modem Front View

1.2.2 The NTU Front Panel

RM32MUI

RESET

SEL

DTR
DSR
RTS
CTS
TXD
DCD
RXD
ACT
TST
SCAN

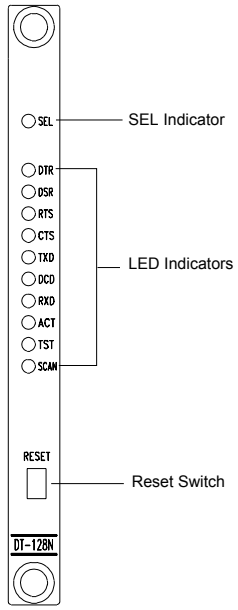


Fig. 1-3 The NTU Front View

1.2.3 The V3600UI-RM Modem Front Panel

M MUI V3600UI-RM
V.3600UI=RM

VO/DA

SEL

DTR
DSR
RTS
CTS
TXD
DCD
RXD
OH
TST
SCAN

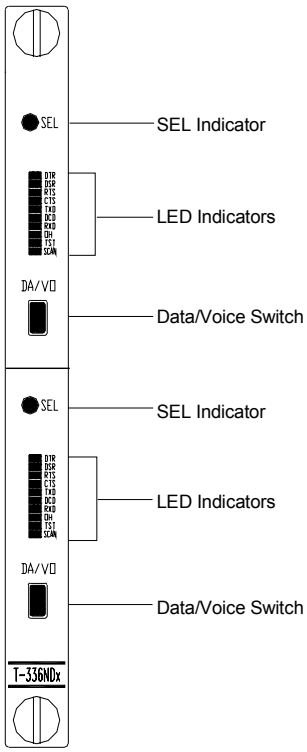


Fig. 1-4 The V3600UI-RM Modem Front View

1.2.4 The DCE-series Modem Front Panel

VO/DA

DTR
DSR
RTS
CTS
TXD
DCD
RXD
OH
TST
SCAN

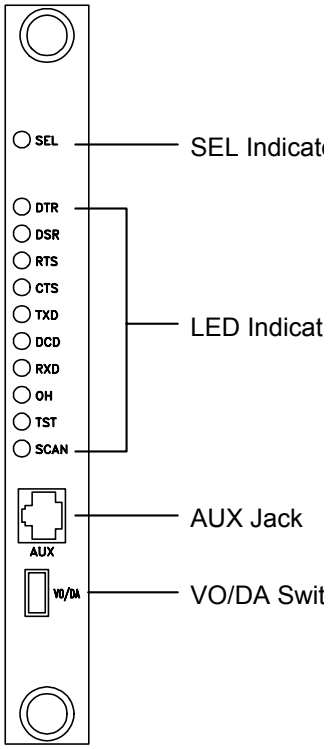


Fig. 1-5 The DCE-Series Modem Front View

3600UI-RM

Table 1-1 The Pin Arrangement of AUX Jack

DCE

1.3 Ordering Information

For TRS16 Shelf		
Model	**Description**	**Part No.**
RM16MUI		
DCE ®		

For TRS32 Shelf		
Model	**Description**	**Part No.**
RM32MUI		
DCE ®		

CONTENT

2.1 RM32MUI Rear Panel

2.2 RM16MUI and RM16MUI-B Rear Panel

2.3 RM16MUI-A Rear Panel

CHAPTER 2 Installation

2.1 RM32MUI Rear Panel

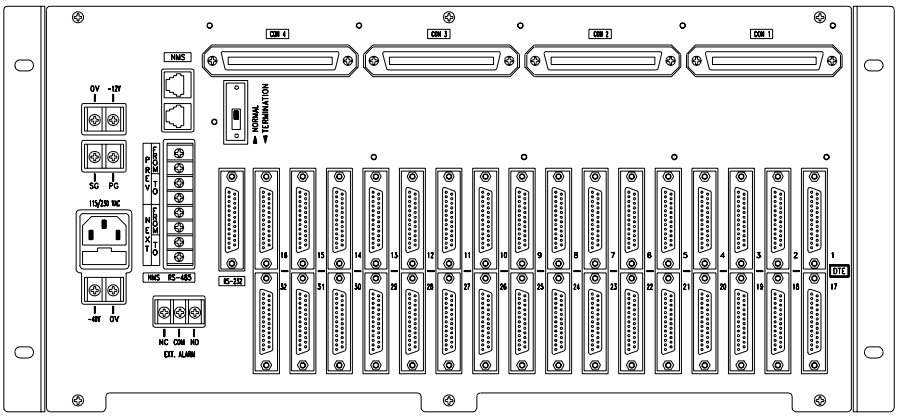


Fig. 2-1 RM32MUI Rear Panel

115/230 VAC ± %
-48V & 0V:
GND & -12:
Ext. Alarm:
NMS RS-485:
NMS RS-232:
NORMAL/TERMINATION:
PG & SG:
DTE 1 ~ DTE 32:
CON 1 ~ CON 4:
NMS Jacks:

2.2 RM16MUI and RM16MUI-B Rear Panel

RM MUI

RM16MUI

RM16MUI- **NMS** **GND & -12V**

s

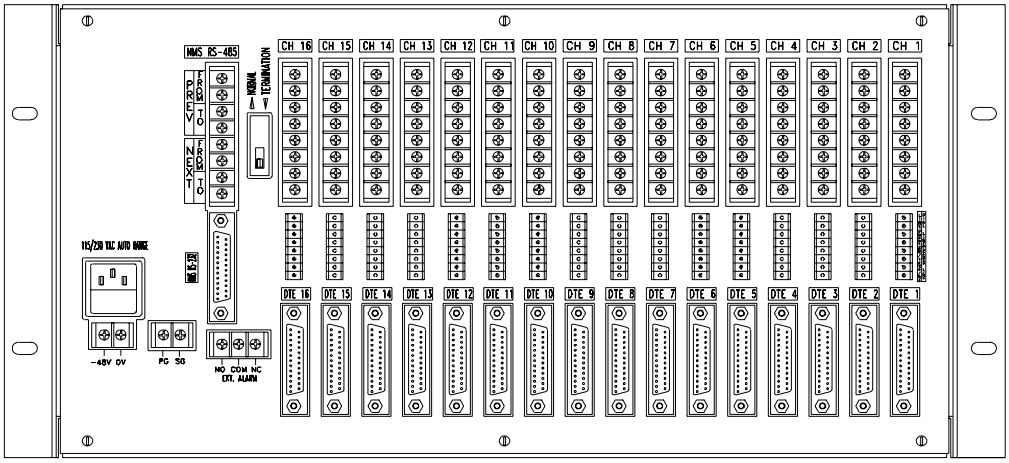


Fig. 2-2 RM16MUI Rear Panel

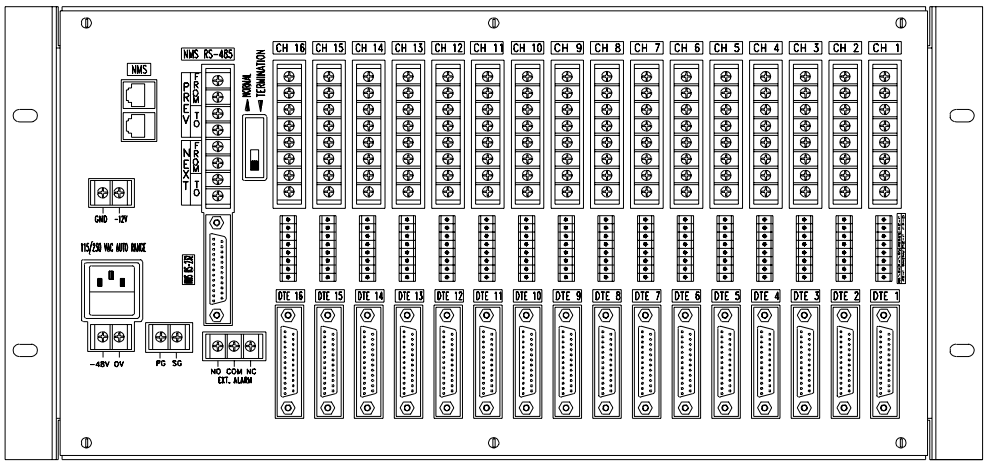


Fig. 2-3 RM16MUI-B Rear Panel

115/230 VAC AUTO RANGE: ~
-48V & 0V: ~
GND & -12V:
Ext. Alarm:
NMS RS-485:
NMS RS-232:
NORMAL/TERMINATION:
PG & SG:
DTE 1 ~ DTE 16:
CH 1 ~ CH 16:
NMS Jacks:

2.3 RM16MUI-A Rear Panel

M MUI-

M MUI-

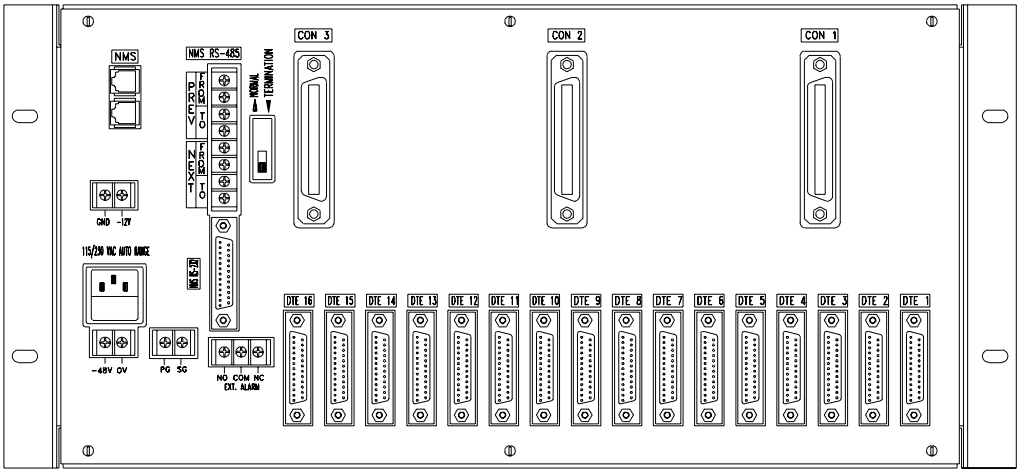


Fig. 2-4 RM16MUI-A Rear Panel

115/230 VAC AUTO RANGE:
-48V & 0V:
GND & -12V:
Ext. Alarm:
NMS RS-485:
NMS RS-232:
NORMAL/TERMINATION:
PG & SG:
DTE 1 ~ DTE 16:
CON 1 ~ CON 3:
NMS Jacks:

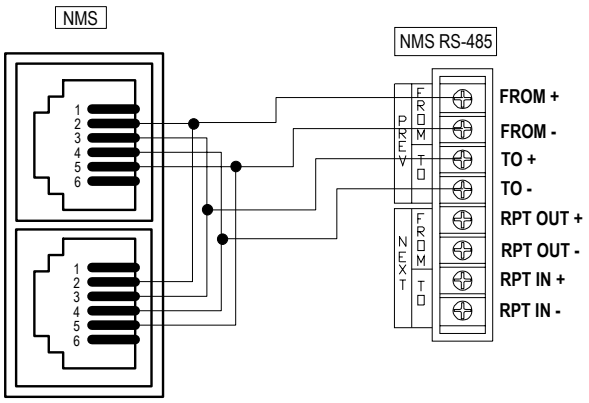
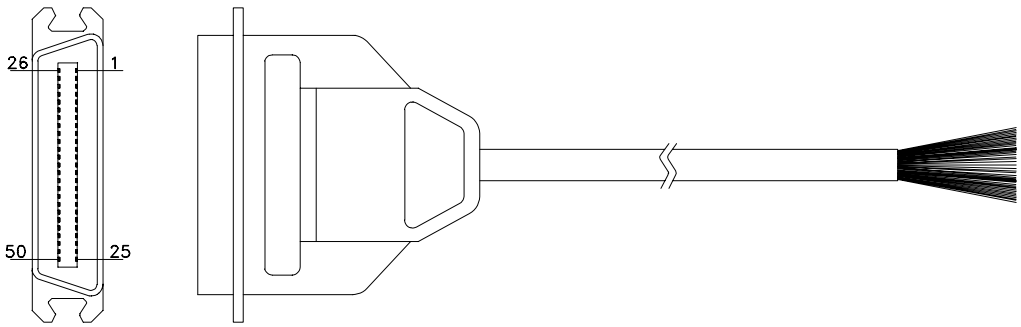


Fig. 2-5 The Pin Arrangement of NMS Jack



Pin No.	COLOR (Body/Dot)	Pin No.	COLOR (Body/Dot)
1	Blue/White	26	White/Blue
2	Orange/White	27	White/Orange
3	Green/White	28	White/Green
4	Brown/White	29	White/Brown
5	Gray/White	30	White/Gray
6	Blue/Red	31	Red/Blue
7	Orange/Red	32	Red/Orange
8	Green/Red	33	Red/Green
9	Brown/Red	34	Red/Brown
10	Gray/Red	35	Red/Gray
11	Blue/Black	36	Black/Blue
12	Orange/Black	37	Black/Orange
13	Green/Black	38	Black/Green
14	Brown/Black	39	Black/Brown
15	Gray/Black	40	Black/Gray
16	Blue/Yellow	41	Yellow//Blue
17	Orange/Yellow	42	Yellow/Orange
18	Green/Yellow	43	Yellow/Green
19	Brown/Yellow	44	Yellow/Brown
20	Gray/Yellow	45	Yellow/Gray
21	Blue/Purple	46	Purple/Blue
22	Orange/Purple	47	Purple/Orange
23	Green/Purple	48	Purple/Green
24	Brown/Purple	49	Purple/Brown

Fig. 2-6 The color assignment of 50-pin Centronic Cable

CON 1

Dial A1	1	26	Dial B1
Tx A1	2	27	Tx B1
Rx A1	3	28	Rx B1
Dial A17	4	29	Dial B17
Tx A17	5	30	Tx B17
Rx A17	6	31	Rx B17
Dial A2	7	32	Dial B2
Tx A2	8	33	Tx B2
Rx A2	9	34	Rx B2
Dial A18	10	35	Dial B18
Tx A18	11	36	Tx B18
Rx A18	12	37	Rx B18
Dial A3	13	38	Dial B3
Tx A3	14	39	Tx B3
Rx A3	15	40	Rx B3
Dial A19	16	41	Dial B19
Tx A19	17	42	Tx B19
Rx A19	18	43	Rx B19
Dial A4	19	44	Dial B4
Tx A4	20	45	Tx B4
Rx A4	21	46	Rx B4
Dial A20	22	47	Dial B20
Tx A20	23	48	Tx B20
Rx A20	24	49	Rx B20
not used	25	50	not used

CON 2

Dial A5	1	26	Dial B5
Tx A5	2	27	Tx B5
Rx A5	3	28	Rx B5
Dial A21	4	29	Dial B21
Tx A21	5	30	Tx B21
Rx A21	6	31	Rx B21
Dial A6	7	32	Dial B6
Tx A6	8	33	Tx B6
Rx A6	9	34	Rx B6
Dial A22	10	35	Dial B22
Tx A22	11	36	Tx B22
Rx A22	12	37	Rx B22
Dial A7	13	38	Dial B7
Tx A7	14	39	Tx B7
Rx A7	15	40	Rx B7
Dial A23	16	41	Dial B23
Tx A23	17	42	Tx B23
Rx A23	18	43	Rx B23
Dial A8	19	44	Dial B8
Tx A8	20	45	Tx B8
Rx A8	21	46	Rx B8
Dial A24	22	47	Dial B24
Tx A24	23	48	Tx B24
Rx A24	24	49	Rx B24
not used	25	50	not used

CON 3

Dial A9	1	26	Dial B9
Tx A9	2	27	Tx B9
Rx A9	3	28	Rx B9
Dial A25	4	29	Dial B25
Tx A25	5	30	Tx B25
Rx A25	6	31	Rx B25
Dial A10	7	32	Dial B10
Tx A10	8	33	Tx B10
Rx A10	9	34	Rx B10
Dial A26	10	35	Dial B26
Tx A26	11	36	Tx B26
Rx A26	12	37	Rx B26
Dial A11	13	38	Dial B11
Tx A11	14	39	Tx B11
Rx A11	15	40	Rx B11
Dial A27	16	41	Dial B27
Tx A27	17	42	Tx B27
Rx A27	18	43	Rx B27
Dial A12	19	44	Dial B12
Tx A12	20	45	Tx B12
Rx A12	21	46	Rx B12
Dial A28	22	47	Dial B28
Tx A28	23	48	Tx B28
Rx A28	24	49	Rx B28
not used	25	50	not used

CON 4

Dial A13	1	26	Dial B13
Tx A13	2	27	Tx B13
Rx A13	3	28	Rx B13
Dial A29	4	29	Dial B29
Tx A29	5	30	Tx B29
Rx A29	6	31	Rx B29
Dial A14	7	32	Dial B14
Tx A14	8	33	Tx B14
Rx A14	9	34	Rx B14
Dial A30	10	35	Dial B30
Tx A30	11	36	Tx B30
Rx A30	12	37	Rx B30
Dial A15	13	38	Dial B15
Tx A15	14	39	Tx B15
Rx A15	15	40	Rx B15
Dial A31	16	41	Dial B31
Tx A31	17	42	Tx B31
Rx A31	18	43	Rx B31
Dial A16	19	44	Dial B16
Tx A16	20	45	Tx B16
Rx A16	21	46	Rx B16
Dial A32	22	47	Dial B32
Tx A32	23	48	Tx B32
Rx A32	24	49	Rx B32
not used	25	50	not used

Fig. 2-7 The Pin Arrangement of the CON 1 ~ CON 4 for TRS32

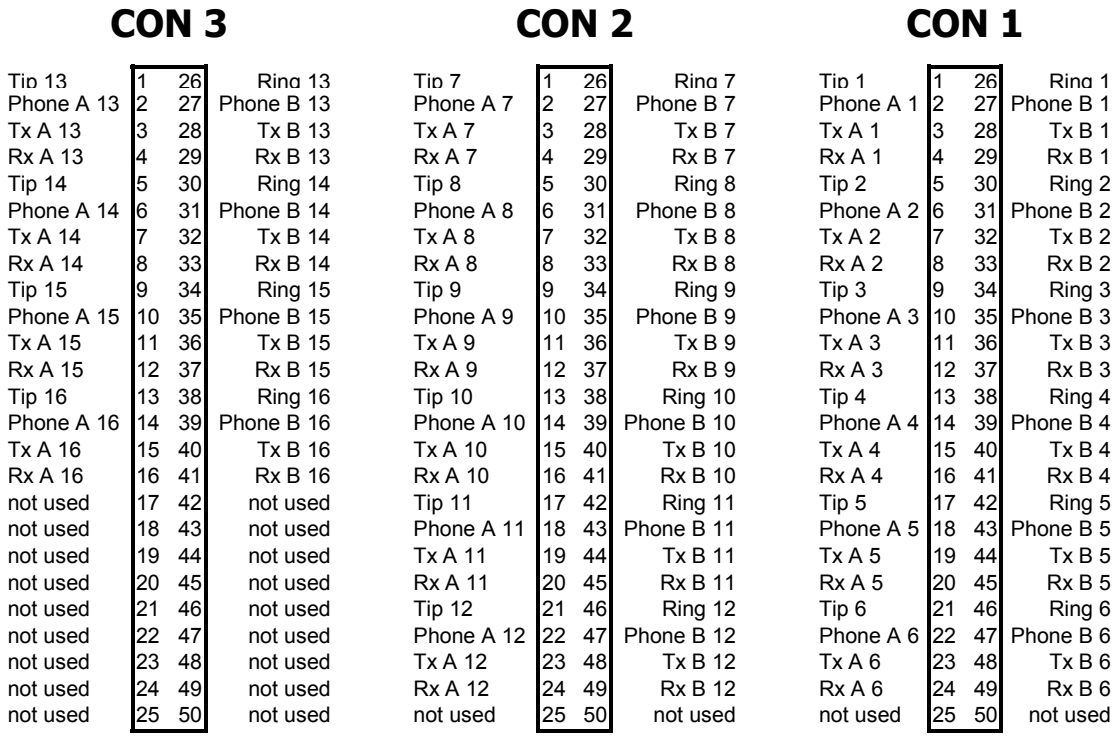


Fig. 2-8 The Pin Arrangement of CON 1 ~ CON 3 for TRS16

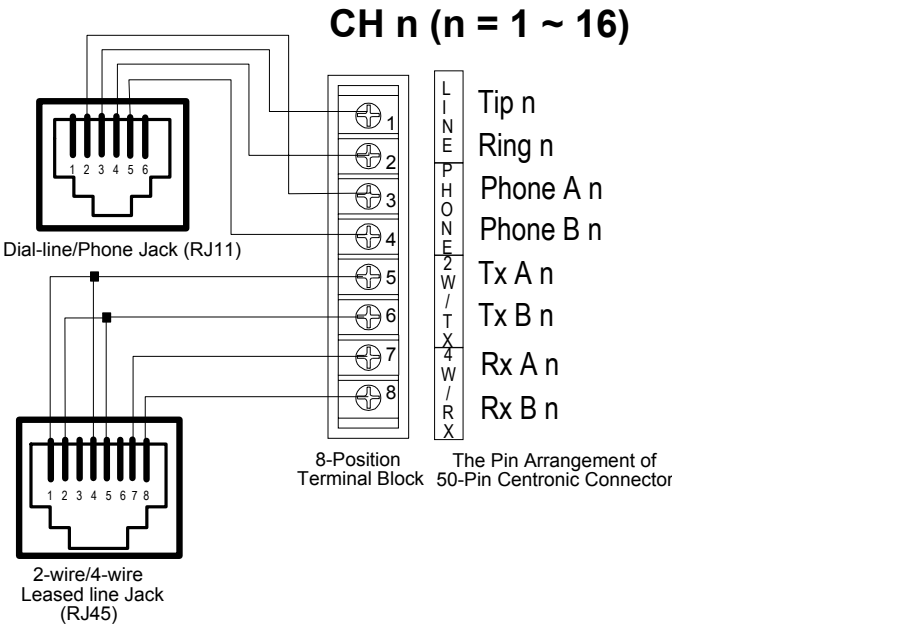


Fig. 2-9 The Pin Arrangement of TBPJ-16 and PJ-16 Daughter Board.

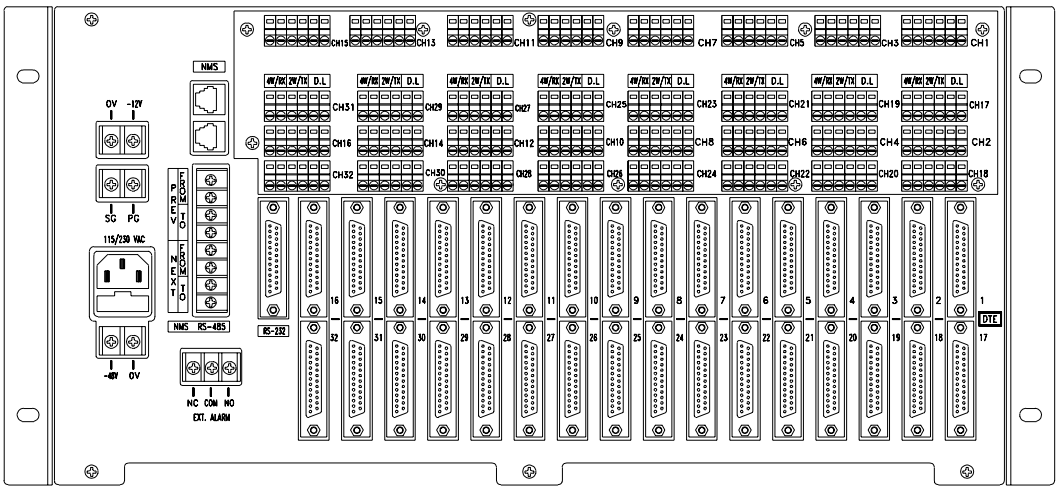


Fig. 2-10 The RM32MUIRear Panel + TB-32 Daughter Board

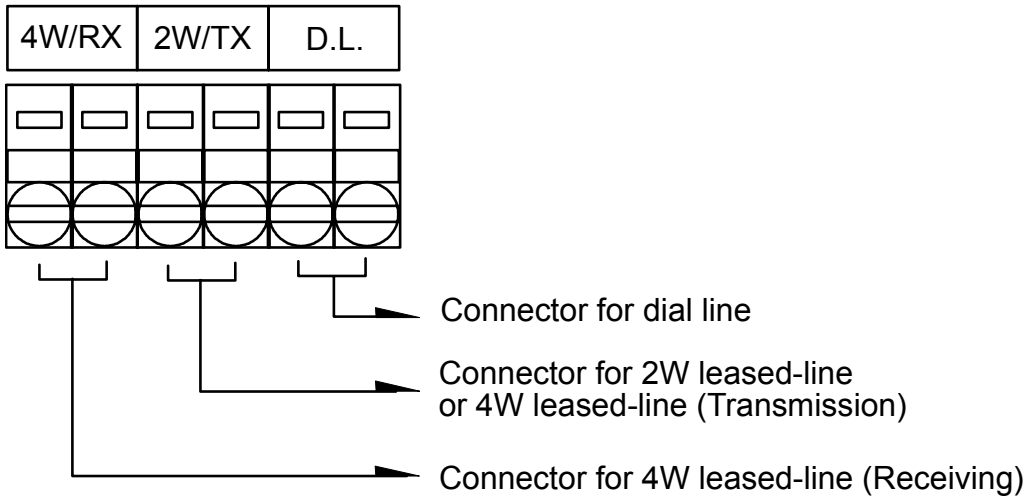


Fig. 2-11 The Pin Arrangements of the CH1 ~ CH32

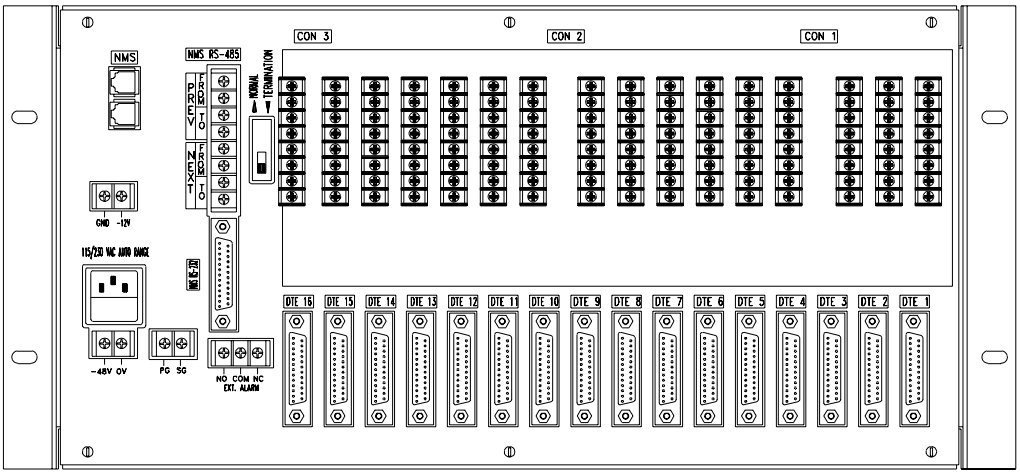


Fig. 2-12 RM16MUI-A Rear Panel + TB-16 Daughter Board

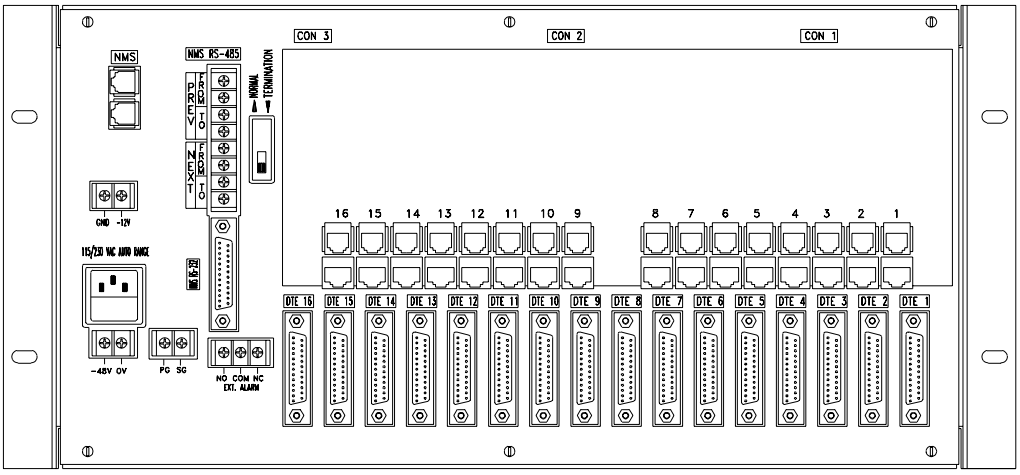


Fig. 2-13 RM16UI-A Rear Panel + PJ-16 Daughter Board

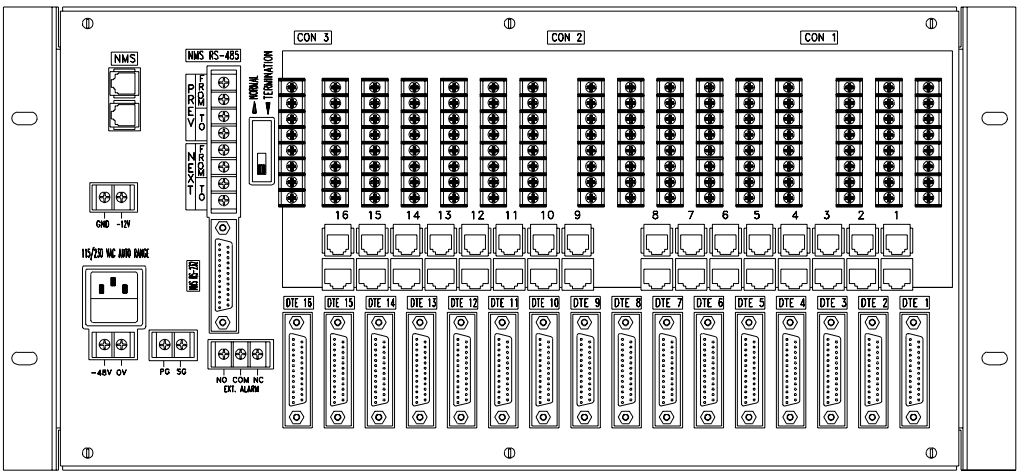


Fig. 2-14 RM16MUI-A Rear Panel + TBPJ-16 Daughter Board

CONTENT

3.1 The NMC Front Panel

3.2 Running the NMC Front Panel

CHAPTER 3 Operating The NMC

3.1 The NMC16/32 Front Panel

RM16/32MUI

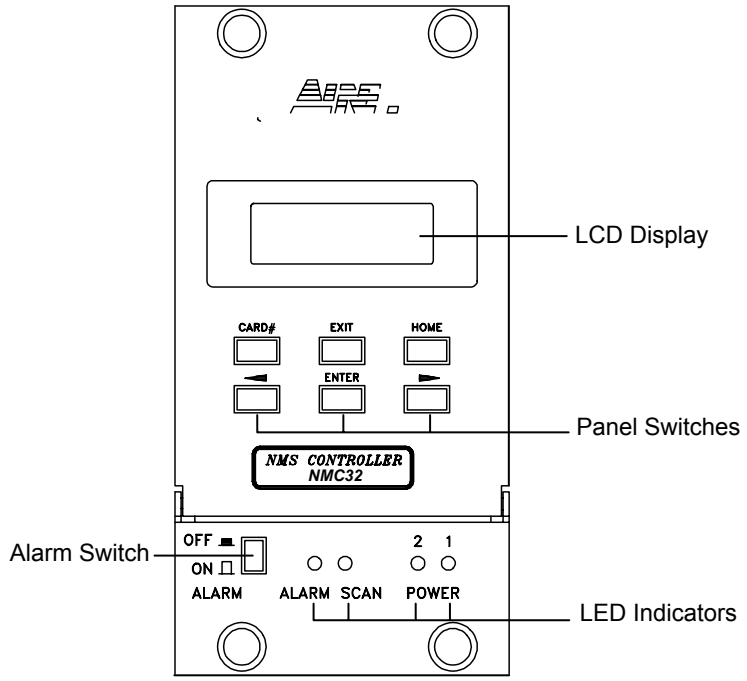


Fig. 3-1 NMC Front Panel

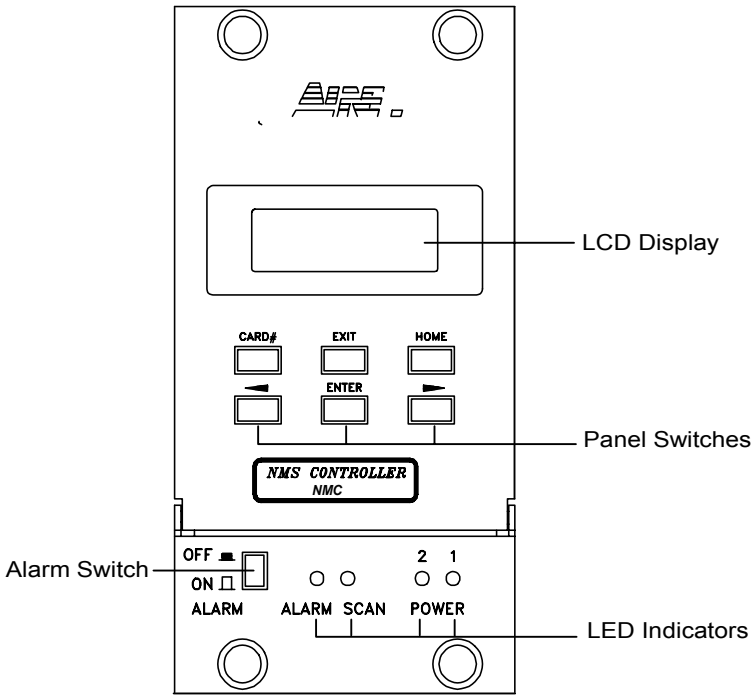


Fig. 3-2 NMC Front Panel

Panel Switches :

◀
▶

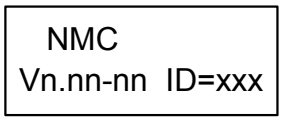
LED Indicators :

Alarm Switch :

LCD Display :
2×16

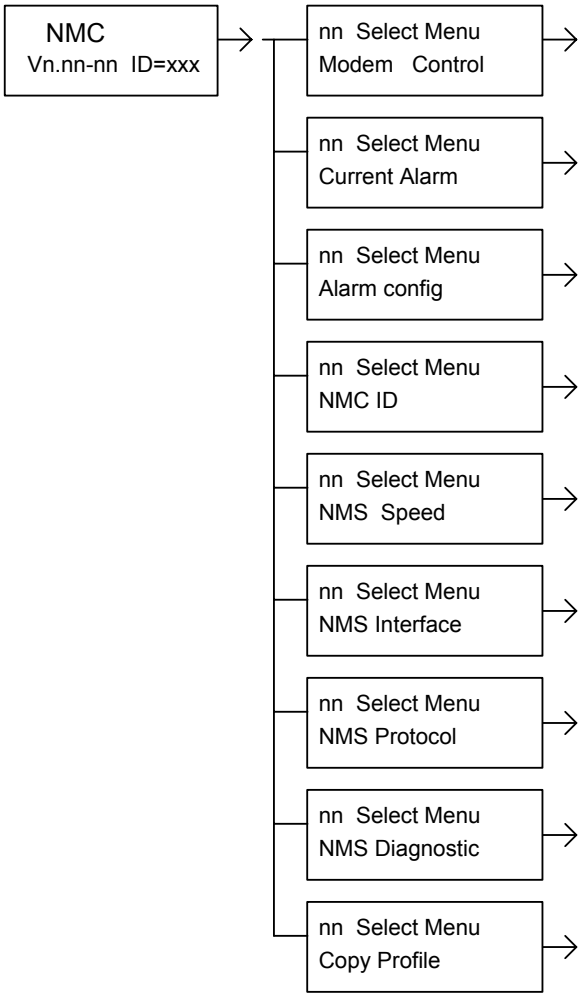
3.2 Running the NMC Front Panel

3.2.1 Main menu



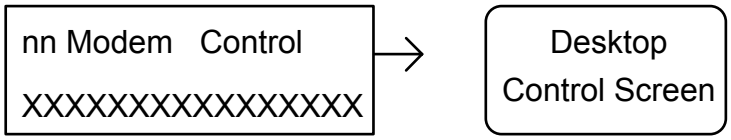
Description:

3.2.2 NMC Setting and Modem Control menu



Description:

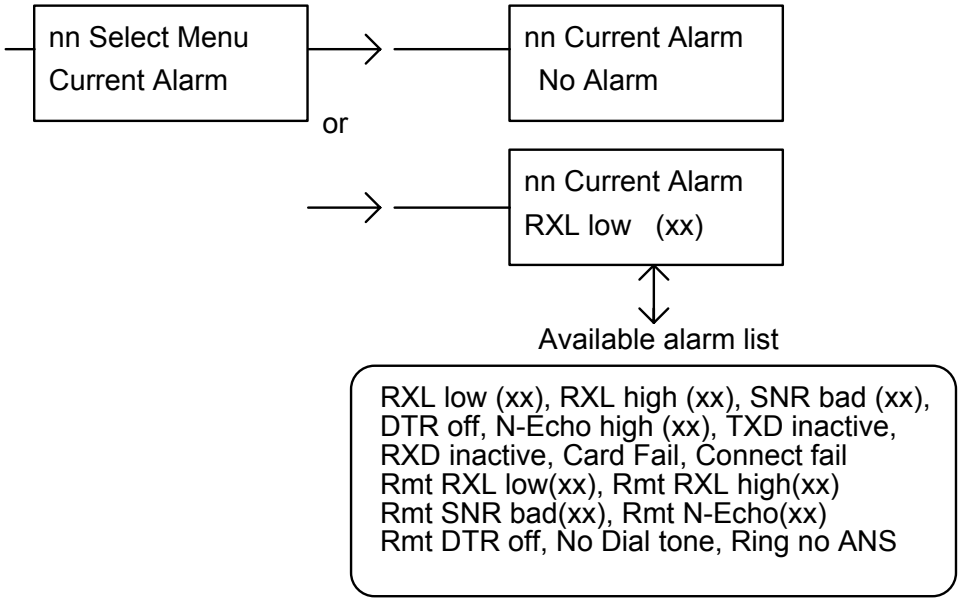
3.2.3 Modem Control menu



Description:

DCE

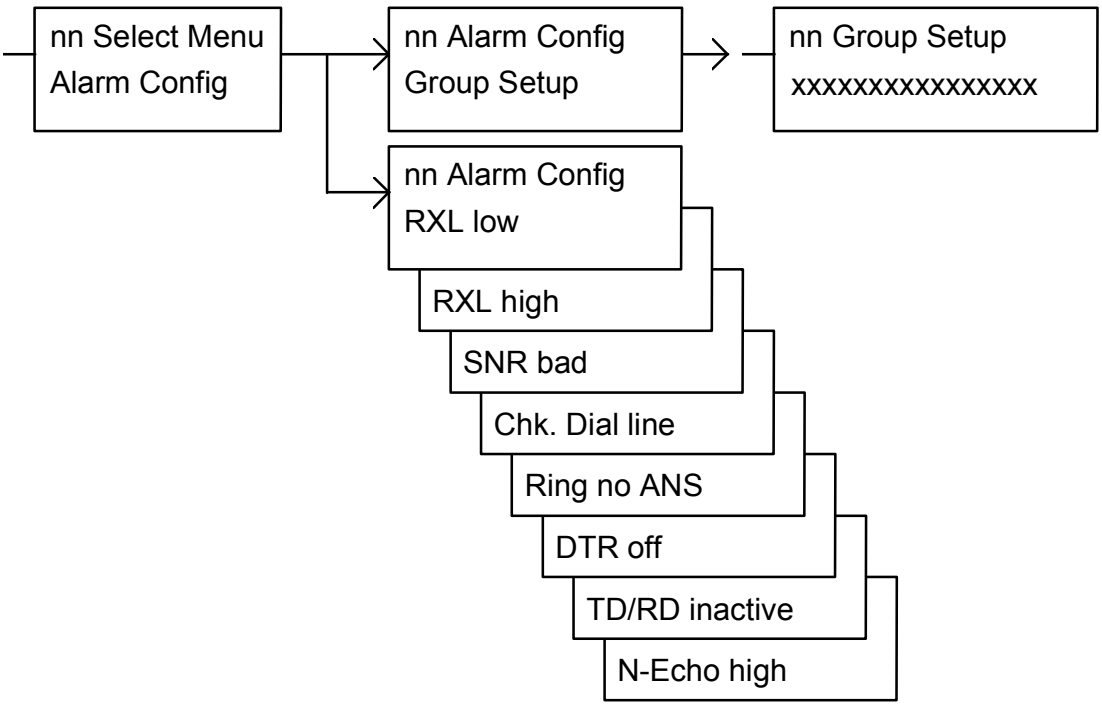
3.2.4 NMC urrent Alarm menu



Description:

Alarm Message	Scanning ...	Description

3.2.5 Alarm Config menu



Description:

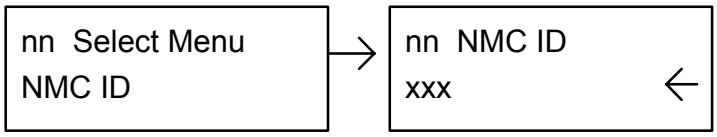
▶ ◀

x	
0	
-	
+	

Alarm Configuration Item	Threshold Setting Values

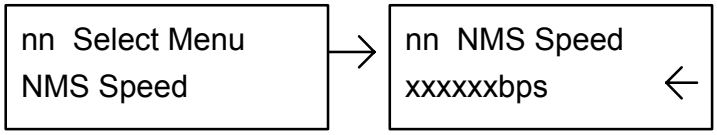
Default Alarm Threshold Values:

3.2.6 NMC ID menu



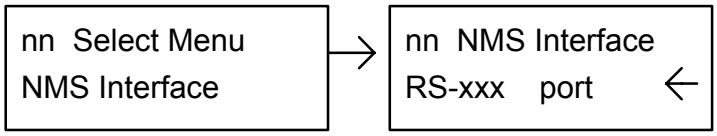
Description:

3.2.7 NMS Speed menu



Description:

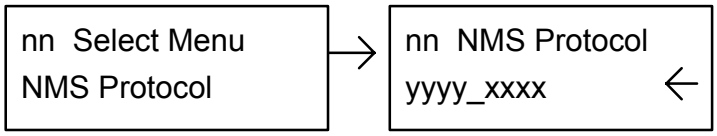
3.2.8 NMS Interface menu



Description:

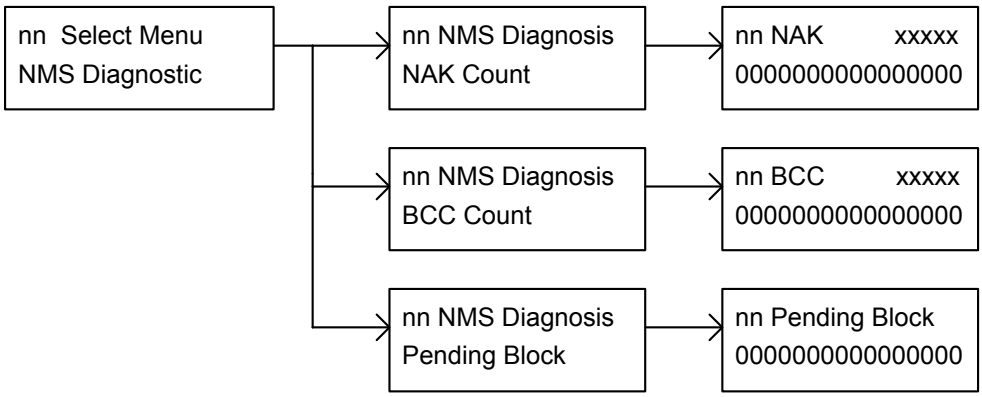
DCE

3.2.9 NMS Protocol menu



Description:

3.2.10 NMS Diagnostic menu



Description:

▶ ◀

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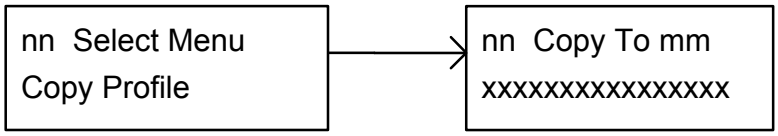
3.2.11 Copy Profile menu



Description:

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CONTENT

4.1 Instruments

4.2 Install and Verify Power Supply

4.3 Troubleshooting

4.4 Return Procedure

CHAPTER 4 Maintenance

4.1 Instruments

4.2 Install and Verify Power Supply

RM MUI

RM MUI

- **For details please refer to Section 1.3.**

> ***Note:*** *If the modem shelf installed dual power units, you shall turn OFF the other power unit before performing voltage measurement.*

4.3 Troubleshooting

DCE

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4.4 Return Procedures

MD